

AP Chemistry Final Study Guide

Unit 1: Atomic Structure and Properties (7%–9%)

- At STP, one mole of gas always occupies 22.4 L
- **Mass Spectroscopy:**
 - Atoms have different isotopes (carbon-12, carbon-14, etc) and this will affect the average atomic mass
 - The most abundant isotope will have the greatest effect
- **Coulomb's Law:**
 - The greater the charge of the nucleus, the more energy is required to ionize an electron
 - The closer an electron is to the nucleus, the more energy is required to ionize an electron
- **Electromagnetic Radiation:**
 - When atoms absorb energy, electrons jump to higher energy levels
 - When electrons drop from higher to lower energy levels, atoms give off electromagnetic radiation energy
- **Kinetic Energy of Ionized Electrons:**
 - The faster an ejected electron is going, the more kinetic energy it has
 - Electrons originally further away from the nucleus require less energy to eject, so it will have more kinetic energy
- **Electron Configuration:**
 - When entering the d-block (transition metals), the energy level drops by 1 unless you are using shorthand notation
 - Nickel: $1s^2 2s^2 2p^6 3s^2 3p^6 3d^8 4s^2$ (notice the d-block)
 - Nickel (with shorthand): $[\text{Ar}] 4s^2 3d^8$
- **Law of Definite Proportions:**
 - A pure chemical compound broken down into elements always contains elements of a fixed ratio, independent of where and how it was created
- **Law of Multiple Proportions:**
 - When elements form compounds, the proportions of the elements in those chemical compounds can be expressed in small whole number ratios
- **Aufbau Principle:**
 - When building up the electron configuration of an atom, electrons are placed in orbitals, subshells, and shells in order of increasing energy

Spring Exam Study Guide Chemistry

**Peter L. Kresan, Reed Mencke, Frank
Press, Raymond Siever**



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Hazmat Chemistry Study Guide (Second Edition) Jill Meryl Levy, 2011

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Additional Science Ian Honeysett, John Sadler, Carol Tear, 2007-09 Written by examiners and practicing teachers this series is full of activities as well as a host of useful features intended to aid understanding Knowledge is tested throughout with progress checks at the end of every chapter and practice questions at the end of each section

Learning Science Through Computer Games and Simulations National Research Council, Division of Behavioral and Social Sciences and Education, Board on Science Education, Committee on Science Learning: Computer Games, Simulations, and Education, 2011-05-12 At a time when scientific and technological competence is vital to the nation's future the weak performance of U S students in science reflects the uneven quality of current science education Although young children

come to school with innate curiosity and intuitive ideas about the world around them science classes rarely tap this potential Many experts have called for a new approach to science education based on recent and ongoing research on teaching and learning In this approach simulations and games could play a significant role by addressing many goals and mechanisms for learning science the motivation to learn science conceptual understanding science process skills understanding of the nature of science scientific discourse and argumentation and identification with science and science learning To explore this potential Learning Science Computer Games Simulations and Education reviews the available research on learning science through interaction with digital simulations and games It considers the potential of digital games and simulations to contribute to learning science in schools in informal out of school settings and everyday life The book also identifies the areas in which more research and research based development is needed to fully capitalize on this potential Learning Science will guide academic researchers developers publishers and entrepreneurs from the digital simulation and gaming community and education practitioners and policy makers toward the formation of research and development partnerships that will facilitate rich intellectual collaboration Industry government agencies and foundations will play a significant role through start up and ongoing support to ensure that digital games and simulations will not only excite and entertain but also motivate and educate

Geography AQA John Hancock,2006 Written by examiners and practising teachers this work offers study and homework support throughout GCSE It is useful as a reference source a lesson back up and as a revision guide **X-kit Exam 2004**

Physical Science ,2005 Chemistry for Advanced Level Course Ted Lister,Janet Renshaw,2000 This course study guide is designed to complement New Understanding Chemistry for Advanced Level but it can be used with any other core textbook for AS and A Level Chemistry as well It aims to help further develop chemistry skills such as laboratory techniques mathematical methods and data handling The course study guide also provides outline solutions to a selection of questions and gives advice on answering all types of examination questions and support for Key Skills **Mathematics** Mark

Patmore,Brian Seager,2006 Written by examiners and experienced teachers this work offers study and homework support throughout GCSE It is useful as a reference source a lesson back up and a revision guide **Final Exam Review:**

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Princeton Review (Firm), 2004-09 Our Best 357 Colleges is the best selling college guide on the market because it is the voice of the students Now we let graduate students speak for themselves too in these brand new guides for selecting the ideal business law medical or arts and humanities graduate school It includes detailed profiles rankings based on student surveys like those made popular by our Best 357 Colleges guide as well as student quotes about classes professors the social scene and more Plus we cover the ins and outs of admissions and financial aid Each guide also includes an index of all schools with the most pertinent facts such as contact information And we've topped it all off with our school says section where participating schools can talk back by providing their own profiles It's a whole new way to find the perfect match in a graduate school

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